

L2 ANSWER 1 OF 8 USPATFULL  
ACCESSION NUMBER: 2002:92654 USPATFULL  
TITLE: Method of inducing neuronal production in the brain and spinal cord  
INVENTOR(S): Goldman, Steven A., South Salem, NY, UNITED STATES  
Benraiss, Abdellatif, Astoria, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002049178	A1	20020425
APPLICATION INFO.:	US 2001-846588	A1	20010501 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-201230P	20000501 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Michael L. Goldman, Esq., NIXON PEABODY LLP, Clinton Square, P.O. Box 31051, Rochester, NY, 14603-1051	
NUMBER OF CLAIMS:	47	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	1997	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods of inducing neuronal production in the brain, recruiting neurons to the brain, and treating a neurodegenerative condition by providing a nucleic acid construct encoding a neurotrophic factor, and injecting the nucleic acid construct intraventricularly into a subject's brain.

L2 ANSWER 2 OF 8 USPATFULL  
ACCESSION NUMBER: 2002:4727 USPATFULL  
TITLE: PROCESS FOR TRANSFORMING GRAMINEAE AND THE PRODUCTS THEREOF  
INVENTOR(S): GOLDMAN, STEPHEN L., TOLEDO, OH, UNITED STATES  
GRAVES, ANNE C. F., BOWLING GREEN, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002002711	A1	20020103
APPLICATION INFO.:	US 1998-95208	A1	19980610 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-265982, filed on 27 Jun 1994, GRANTED, Pat. No. US 6020539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CALFEE HALTER & GRISWOLD, LLP, 800 SUPERIOR AVENUE, SUITE 1400, CLEVELAND, OH, 44114		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1.		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1550		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed Gramineae comprising making a wound in a seedling in an area of the seedling containing rapidly dividing cells and in ovulating the wound with vir.sup.+ *Agrobacterium tumefaciens*. Also, this same method wherein the vir.sup.+ *A. tumefaciens* contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed pollen grain of a Gramineae, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens*, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens*

containing a vector comprising genetically-engineered T-DNA, a pollen grain of a Gramineae whose cells contain a segment of T-DNA, and Gramineae derived from each of these pollen grains. There are also provided a transformed Gramineae plant, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **Agrobacterium tumefaciens**, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA and a Gramineae plant whose cells contain a segment of T-DNA. Finally, there are provided transformed Gramineae derived from seedlings infected with vir.sup.+ **Agrobacterium tumefaciens** and transformed Gramineae derived from seedlings infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA.

L2 ANSWER 3 OF 8 USPATFULL

ACCESSION NUMBER: 2000:13002 USPATFULL  
TITLE: Process for transforming Gramineae and the products thereof  
INVENTOR(S): **Goldman, Stephen L.**, 4523 W. Bancroft, Unit #7, Toledo, OH, United States 43615  
**Graves, Anne C. F.**, 627 Crestview Dr., Bowling Green, OH, United States 43402

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6020539 20000201

APPLICATION INFO.: US 1994-265982 19940627 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-16600, filed on 11 Feb 1993, now abandoned which is a continuation of Ser. No. US 1989-436187, filed on 13 Nov 1989, now patented, Pat. No. US 5187073 which is a continuation of Ser. No. US 1987-67902, filed on 29 Jun 1987, now abandoned which is a continuation-in-part of Ser. No. US 1986-880271, filed on 30 Jun 1986, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Fox, David T.

LEGAL REPRESENTATIVE: Marshall & Melhorn

NUMBER OF CLAIMS: 29

EXEMPLARY CLAIM: 3

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 1606

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed Gramineae comprising making a wound in a seedling in an area of the seedling containing rapidly dividing cells and inoculating the wound with vir.sup.+ **Agrobacterium tumefaciens**. Also, this same method wherein the vir.sup.+ *A. tumefaciens* contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed pollen grain of a Gramineae, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens*, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA, a pollen grain of a Gramineae whose cells contain a segment of T-DNA, and Gramineae derived from each of these pollen grains. There are also provided a transformed Gramineae plant, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **Agrobacterium tumefaciens**, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA and a Gramineae plant whose cells contain a segment of T-DNA. Finally, there are provided transformed Gramineae derived from seedlings infected with vir.sup.+ **Agrobacterium tumefaciens** and transformed Gramineae derived from seedlings infected with vir.sup.+ *A. tumefaciens* containing a vector comprising

genetically-engineered T-DNA.

L2 ANSWER 4 OF 8 USPATFULL

ACCESSION NUMBER: 94:112907 USPATFULL  
TITLE: *Agrobacterium* mediated transformation of germinating plant seeds  
INVENTOR(S): Chee, Paula P., Kalamazoo, MI, United States  
                  Goldman, Stephen L., Toledo, OH, United States  
PATENT ASSIGNEE(S): Graves, Anne C. F., Bowling Green, OH, United States  
                  Slightom, Jerry L., Kalamazoo, MI, United States (4)  
                  The University of Toledo, Toledo, OH, United States  
                  (U.S. corporation)

NUMBER       KIND       DATE

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PATENT INFORMATION: US 5376543                   19941227  
APPLICATION INFO.: US 1992-986582               19921207 (7)

DISCLAIMER DATE: 20091208  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1990-499515, filed on 21 Jun 1990, now patented, Pat. No. US 5169770 which is a continuation of Ser. No. US 1987-135655, filed on 21 Dec 1987, now abandoned  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Marshall & Melhorn  
NUMBER OF CLAIMS: 3  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 3 Drawing Page(s)  
LINE COUNT: 603

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A non-tissue culture process using *Agrobacterium*-mediated vectors to produce transgenic plants from seeds of such plants as the common bean and soybean.

L2 ANSWER 5 OF 8 USPATFULL

ACCESSION NUMBER: 94:73217 USPATFULL  
TITLE: Process for transforming gladiolus  
INVENTOR(S): Graves, Anne C. F., Bowling Green, OH, United States  
                  Goldman, Stephen L., Toledo, OH, United States  
PATENT ASSIGNEE(S): The University of Toledo, Toledo, OH, United States  
                  (U.S. corporation)

NUMBER       KIND       DATE

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PATENT INFORMATION: US 5340730                   19940823  
APPLICATION INFO.: US 1992-900507               19920617 (7)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-652362, filed on 7 Feb 1991, now abandoned which is a continuation of Ser. No. US 1988-175709, filed on 31 Mar 1988, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Benzion, Gary  
LEGAL REPRESENTATIVE: Marshall & Melhorn  
NUMBER OF CLAIMS: 4  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)  
LINE COUNT: 918

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing a transformed Gladiolus plant comprising: removing a piece of tissue from a corm; inoculating the tissue with vir.sup.+ *Agrobacterium tumefaciens*; incubating the inoculated tissue

until a tumor forms; culturing at least a portion of the tumor in hormone-free medium until a cormel forms; and growing the cormel to produce the transformed plant. Also, methods of producing a transformed Gladiolus corm or seed comprising growing a transformed Gladiolus plant, prepared as just described, until the corm or seed is formed. Finally, transformed Gladiolus plants, corms and seeds.

L2 ANSWER 6 OF 8 USPATFULL

ACCESSION NUMBER: 93:12433 USPATFULL  
TITLE: Process for transforming gramineae and the products thereof  
INVENTOR(S): Goldman, Stephen L., Toledo, OH, United States  
PATENT ASSIGNEE(S): Graves, Anne C. F., Bowling Green, OH, United States  
The University of Toledo, Toledo, OH, United States  
(U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5187073 19930216  
APPLICATION INFO.: US 1989-436187 19891113 (7)  
DISCLAIMER DATE: 20100105  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1987-67902, filed on 29 Jun 1987, now abandoned which is a continuation-in-part of Ser. No. US 1986-880271, filed on 30 Jun 1986, now abandoned  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Marshall & Melhorn  
NUMBER OF CLAIMS: 4  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 26 Drawing Figure(s); 7 Drawing Page(s)  
LINE COUNT: 1585

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed Gramineae comprising making a wound in a seedling in an area of the seedling containing rapidly dividing cells and inoculating the wound with vir.sup.+ **Agrobacterium tumefaciens**. Also, this same method wherein the vir.sup.+ *A. tumefaciens* contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed pollen grain of a Gramineae, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens*, a pollen grain of a Gramineae produced by a plant grown from a seedling infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA, a pollen grain of a Gramineae whose cells contain a segment of T-DNA, and Gramineae derived from each of these pollen grains. There are also provided a transformed Gramineae plant, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ **Agrobacterium tumefaciens**, a transformed Gramineae plant derived from a seedling infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA and a Gramineae plant whose cells contain a segment of T-DNA. Finally, there are provided transformed Gramineae derived from seedlings infected with vir.sup.+ **Agrobacterium tumefaciens** and transformed Gramineae derived from seedlings infected with vir.sup.+ *A. tumefaciens* containing a vector comprising genetically-engineered T-DNA.

L2 ANSWER 7 OF 8 USPATFULL

ACCESSION NUMBER: 93:1311 USPATFULL  
TITLE: Process for transforming corn and the products thereof  
INVENTOR(S): Goldman, Stephen L., Toledo, OH, United States  
Graves, Anne C. F., Bowling Green, OH, United States

PATENT ASSIGNEE(S) : University of Toledo, Toledo, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5177010		19930105
APPLICATION INFO.:	US 1990-579354		19900905 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1986-880271, filed on 30 Jun 1986, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Willian Brinks Olds Hofer Gilson & Lione		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	21 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1233		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing transformed corn comprising making a wound in a corn seedling in an area of the corn seedling containing rapidly dividing cells and inoculating the wound with vir.sup.+ **Agrobacterium** tumefaciens. Also, this same method wherein the vir.sup.+ **A. tumefaciens** contains a vector comprising genetically-engineered T-DNA. There are further provided a transformed corn pollen grain, a corn pollen grain produced by a plant grown from a seedling infected with vir.sup.+ **A. tumefaciens**, a corn pollen grain produced by a plant grown from a seedling infected with vir.sup..degree. **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA, a corn pollen grain whose cells contain a segment of T-DNA, and corn derived from each of these pollen grains. There are also provided a transformed corn plant, a transformed corn plant derived from a corn seedling infected with vir.sup.+ **Agrobacterium** tumefaciens, a transformed corn plant derived from a corn seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA, and a corn plant whose cells contain a segment of T-DNA. Finally, there are provided transformed corn derived from a corn seedling infected with vir.sup.+ **Agrobacterium** tumefaciens, and transformed corn derived from a corn seedling infected with vir.sup.+ **A. tumefaciens** containing a vector comprising genetically-engineered T-DNA.

L2 ANSWER 8 OF 8 USPATFULL

ACCESSION NUMBER: 92:100926 USPATFULL  
TITLE: **Agrobacterium** mediated transformation of germinating plant seeds  
INVENTOR(S) : Chee, Paula P., Kalamazoo, MI, United States  
                  Goldman, Stephen L., Toledo, OH, United States  
                  Graves, Anne C. F., Bowling Green, OH, United States  
                  Slightom, Jerry L., Kalamazoo, MI, United States (4)  
PATENT ASSIGNEE(S) : The University of Toledo, Toledo, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5169770		19921208
APPLICATION INFO.:	US 1990-499515		19900621 (7)
	WO 1988-US4464		19881216
			19900621 PCT 371 date
			19900621 PCT 102(e) date
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Marshall & Melhorn		

NUMBER OF CLAIMS: 5  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 3 Drawing Page(s)  
LINE COUNT: 656  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB A non-tissue culture process using **Agrobacterium**-mediated  
vectors to produce transgenic plants from seeds of such plants as the  
common bean and soybean.

L3 ANSWER 17 OF 211 USPATFULL  
ACCESSION NUMBER: 97:1344 USPATFULL  
TITLE: Method for transforming monocotyledons  
INVENTOR(S): Hiei, Yokoh, Iwata-gun, Japan  
PATENT ASSIGNEE(S): Komari, Toshihiko, Iwata-gun, Japan  
Japan Tobacco, Inc., Tokyo, Japan (non-U.S.  
corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5591616		19970107	
	WO 9400977		19940120	<--
APPLICATION INFO.:	US 1994-193058		19940503 (8)	
	WO 1993-JP925		19930706	
			19940503 PCT 371 date	
			19940503 PCT 102(e) date	

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1992-204464	19920707
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Benzion, Gary	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch, LLP	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1252	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for transforming a monocotyledon by which the time required from transformation to regeneration of a plant is shorter so that the frequency of emergence of mutants is smaller than the conventional methods, which may be generally applied even to the plants for which the regeneration method from a protoplast to a plant has not been established, and with which the preparation of the material to be subjected to the method is easy. That is, the present invention provides a method for transforming a monocotyledon comprising transforming a cultured tissue during dedifferentiation process or a dedifferentiated cultured tissue of said monocotyledon with a bacterium belonging to genus *Agrobacterium* containing a desired gene.

L3 ANSWER 45 OF 211 AGRICOLA DUPLICATE 4  
ACCESSION NUMBER: 96:54530 AGRICOLA  
DOCUMENT NUMBER: IND20532766  
TITLE: High efficiency transformation of maize (*Zea mays* L.) mediated by *Agrobacterium tumefaciens*.  
AUTHOR(S): Ishida, Y.; Saito, H.; Ohta, S.; Hiei, Y.; Komari, T.; Kumashiro, T.  
CORPORATE SOURCE: Japan Tobacco Inc., Shizuoka, Japan.  
AVAILABILITY: DNAL (QH442.B5)  
SOURCE: Nature biotechnology, June 1996. Vol. 14, No. 6. p. 745-750  
Publisher: New York, NY : Nature Pub. Co., [1996-  
CODEN: NABIF9; ISSN: 1087-0156  
Includes references  
NOTE: New York (State); United States  
PUB. COUNTRY: Article  
DOCUMENT TYPE: U.S. Imprints not USDA, Experiment or Extension  
FILE SEGMENT: English  
LANGUAGE:

L5 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1996:320179 CAPLUS  
TITLE: Milestones in crop biotechnology - transgenic cassava  
and *Agrobacterium*-mediated transformation of  
maize  
AUTHOR(S): Vasil, Indra K.  
CORPORATE SOURCE: Laboratory Plant Cell and Molecular Biology,  
University Florida, Gainesville, FL, 32611-0690, USA  
SOURCE: Nat. Biotechnol. (1996), 14(6), 702-703  
DOCUMENT TYPE: CODEN: NABIF9; ISSN: 1087-0156  
LANGUAGE: English  
AB Unavailable

L5 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:189009 CAPLUS  
DOCUMENT NUMBER: 135:41421  
TITLE: A brief review on genetic transformation of  
maize (*Zea mays* L. ) mediated by  
*Agrobacterium tumefaciens*  
AUTHOR(S): Li, Xin-zheng; Zheng, Cheng-chao; Wen, Fu-jiang  
CORPORATE SOURCE: College of Life Science, Shandong Agricultural  
University, Shandon Taian, 271018, Peop. Rep. China  
SOURCE: Shengwu Gongcheng Jinzhan (2000), 20(6), 19-21  
PUBLISHER: Zhongguo Kexueyuan Wenxian Qingbao Zhongxin  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: Chinese  
AB A review with 19 refs. This review describes the development of maize  
genetic transformation techniques via *Agrobacterium tumefaciens*. The  
cause of low efficiency in the transformation of maize with *Agrobacterium*  
*tumefaciens* and the key factors (i.e., bacterial strain, vector, labeled  
gene, phenotype and origin and development of the receptor plant, and  
tissue culture) that affect the efficiency of transformation were also  
discussed.

L5 ANSWER 26 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1995:338179 BIOSIS  
DOCUMENT NUMBER: PREV199598352479  
TITLE: **Agrobacterium-mediated transformation of maize.**  
AUTHOR(S): Ishida, Yuji; Saito, Hideaki; Ohta, Shozo; Hiei, Yukoh;  
Komari, Toshihiko  
CORPORATE SOURCE: Plant Breed Genet. Res. Lab., Japan Tobacco Inc., 700  
Higashibara, Iwata, Shizuoka 438 Japan  
SOURCE: Plant Physiology (Rockville), (1995) Vol. 108, No. 2  
SUPPL., pp. 152.  
Meeting Info.: Annual Meeting of the American Society of  
Plant Physiologists Charlotte, North Carolina, USA July  
29-August 2, 1995  
ISSN: 0032-0889.  
DOCUMENT TYPE: Conference  
LANGUAGE: English